

L 1683-66

ACCESSION NR: AP5017632

UR/0240/65/000/007/0087/0097

614.73

AUTHOR: Bykhovskiy, A. V.; Malakhov, S. G.

TITLE: Hot particles in air (literature survey)

44.53

32

B

SOURCE: Gigiyena i sanitariya, no. 7, 1965, 87-97

TOPIC TAGS: fission product, radioactivity measurement,
radioactive fallout

19.11.55

ABSTRACT: The problem of hot particles in the air is discussed in terms of radioactivity measurement, radioactivity distribution and concentration of fallout particles, particle size, particle isotope composition, and biological effects of hot particles. The role of autoradiography in measuring radioactivity distribution of individual fallout dust particles is described. A list of authors contributing to the detection of hot particles in air is given. Also, a table summarizing the results of hot particle measurements in different parts of the world is given and the considerable differences in results are discussed. Radioactivity concentrations of fission products and hot particles are not directly proportional, and

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apparently are more complex in their relationship. Other factors affecting the results are particle size and distribution differences for large and small particles. In global fallout beta-radioactivity of the most active particles is 10^{-9} to 10^{-8} curie and the minimum determinable activity is 1.10^{-13} curie. On the basis of various estimates, maximum particle size is 20 microns but particles are usually much smaller. Difference in hot particle composition compared to isotope composition of an aerosol sample (isotope fractionation) is discussed. The estimated doses for producing carcinogenic effects on lungs, established experimentally by various authors, coincide and the estimated developmental period is 10-30 yrs. Dust particles capable of producing microscope necroses in the respiratory organs should be subject to control. Health, geophysical, and biological aspects of hot particles require further study. Orig. art. has: 2 tables.

ASSOCIATION: None

SUBMITTED: 30Sep64

ENCL: 00

SUB CODE: NP, LS

NR REF Sov. 025
Card 2/2

OTHER: 040

L 657M-65 RWD(j)/EWT(m)

ACCESSION NR: AP5009197

S/0241/65/010/003/0031/0039

AUTHOR: Bykhovskiy, A. V.; Zarayev, O. M.

16
B

TITLE: Data on dose calculation for irradiation of lungs with radioactive particles

SOURCE: Meditsinskaya radiologiya, v. 10, no. 3, 1965, 31-39

TOPIC TAGS: man, radioactive particle, lung, tissue, irradiation exposure, radiation dosimetry, beta radiation

ABSTRACT: Calculation of local irradiation doses produced by hot particles in lung tissue of humans exposed to radioactive aerosols is described. To simplify the calculation of dose rate, it was assumed that the total activity of a hot particle is concentrated in its center. Calculation of dose distribution for the medium surrounding a beta radiation source with maximum energy E_0 and absorption coefficient μ was based on R. Levinger's formula. Dose function values for radionuclides most commonly found in radioactive aerosols are given. Maximum radiation absorption dose values for different periods of time that the particles may be affixed to lung tissue are

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also given. At distances of 10 and 50 microns from a hot particle containing Zr⁹⁵ + Nb⁹⁵, Rn¹⁰³, or Ce¹⁴⁴ + Pr¹⁴⁴ and displaying activity on the order of 10^{-9} c, the radiation doses are 10^5 and 10^3 rad respectively for a 10 day fixation period in the lung. If the exact location of a particle is known, then in microscopic investigations with the help of an ocular micrometer the distance to the closest structural elements of the lung can be established. With calculation of the radiation absorption doses for the various particle sites, quantitative data for determining the relation between dose and biological effect can be obtained. Orig. art. has: 4 figures, 3 tables, and 13 formulas.

ASSOCIATION: None.

SUBMITTED: 19Jan64

ENCL: 00

SUB CODE: LS, NP

NR REF SOV: 007

OTHER: 002

M4
Card 5/2

1022-66 EWT(m) DM
ATC NR: AP5022634

UR/0089/65/019/002/0161/0168
621.039.58:622.349.5

AUTHOR: Bykhovskiy, A. V.; Chesnokov, N. I.; Shalayev, I. L.

39

TITLE: Radiation safe-guarding of personnel engaged in uranium ore mining

B

SOURCE: Atomnaya energiya, v. 19, no. 2, 1965, 161-168

TOPIC TAGS: nuclear safety, radiation dosimetry

ABSTRACT: The protection of mining workers against the effects of ionizing radiation and the causes of injury are reviewed and evaluated. The experiences and dosimetric investigations showed that the greatest damage had been caused by the actions of the air-borne radon and its short-living daughter products. The remedial measures for air-borne contaminations subdivided into three groups are briefly summarized. The first group includes the general requirements for reducing the radioactive dust discharged from drilling and excavation operations. The second group of measures covers the general and local ventilation of uranium mines ensuring the removal of radon and other contaminants. In the third group, the special measures preventing the formation of

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ACC NR: AP5022634

dust and the transfer of radon through the air and water are enumerated. Then, the authors reviewed the investigations which had been conducted in the uranium mines in regard to the sources of radon radiations. The main continuous radon emanation comes from the open ore surfaces with some additional amount coming from rock fissures through air suction and interstitial water. The calculation of radon emanation is based on two factors S' and E. The emanation surface factor S' is expressed as a product of the open rock surface area by the percentage of radium content. Its unit is defined as one square meter by one percent of uranium. The letter E denotes an experimental factor expressed in curie/sec. sq m.%. Its maximum value varies from 10^{-8} for sedimentary rock to 10^{-9} units for hydrothermal rock. The amount of ventilation air Q (cu m) needed for the removal of a radon emanation quantity D (curie/sec) is expressed by the formula $Q=10^7 \times D$. The problems of ventilation of local areas were considered, and the installation of filters and the protection of walls were recommended. As examples, two graphs are presented showing the concentrations of radon in the mines equipped with either a normal or a radon preventing ventilation system. The efficiency of dust prevention measures is also illustrated showing

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ACC NR: AP5022634

a dust rate of 1-1.5 mg/cu m which is lower than the prescribed rate of 2 mg/cu m. The protection of respiratory organs by means of protective masks and respirators of various types is briefly reviewed. The protection against gamma radiation of uranium and thorium ores is summarized. A formula for the calculation of the upper limit of gamma radiation rate P_y is given as $P_y = 16.4 C_u + 8.9 C_{th} + 0.035 C_k$ mrad/hr where C_u , C_{th} and C_k are the percent contents of uranium, thorium and potassium in mine rocks. The dosimetric control and monitoring methods are discussed. They are subdivided into three groups of which the first determines the total concentration of short-living daughter emanation products, the second covers separate RaA, RaB, and RaC concentrations while the third one deals with the evaluation of "latent" energy released as a result of decay of daughter products. A general review of dosimeters, detectors and other equipment is presented in general form on the basis of numerous preceding publications. The accuracy of measurement of gamma dose rates from a thick rock layer is summarized in a table for different types of control instruments. The relative dose contribution from the primary and the scattered gamma radiations of uranium and thorium rocks are characterized in two sets of dose-

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ACC NR: AP5022634

energy curves. The article presents only a general review of safe-guard conditions in the uranium mining industry without making any conclusions.

ASSOCIATION: None

SUBMITTED: 20Nov64

ENCL: 00

SUB CODE: NP, GO

NO REF Sov: 019

OTHER: 003

Card 4/4 *red*

BYKHOVSKIY, V.V.; KOMOVNIKOV, G.S.; POLUSHKIN, B.V.

Effect of symosan on the macrophagic reaction of the lungs
and phagocytosis in acute radiation sickness. Vest. AMN
SSSR 20 no.9:83-86 '65. (MIRA 18:11)

1. Institut meditsinskoy radiologii AMN SSSR, Obninsk.

L 24538-66 EWT(m)/EPF(n)-2

ACC NR: AP6006339

SOURCE CODE: UR/0413/66/000/002/0061/0062

AUTHORS: Lisov, G. N.; Drozdov, V. Ye.; Bykhovskiy, A. V.

ORG: none

TITLE: A device for storing ionizing radiation sources. Class 21, No. 177998
19

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966,
61-62

TOPIC TAGS: ionizing radiation, radiation protection, storage

ABSTRACT: This Author Certificate presents a device for the storing sources of ionizing radiation. This device includes a cylindrical ampule, an adapter ring, and a stopper (see Fig. 1). The design prevents the radioactive contamination of the liquid in the storage reservoir and maintains the normal thermal conditions of the radiation source. A chamber in the device forms a hydraulic separating seal between the walls of the ampule. This design insures normal levels of protection outside the liquid storage reservoir when working with the radiation source. A secondary container is filled with a circulating liquid and is

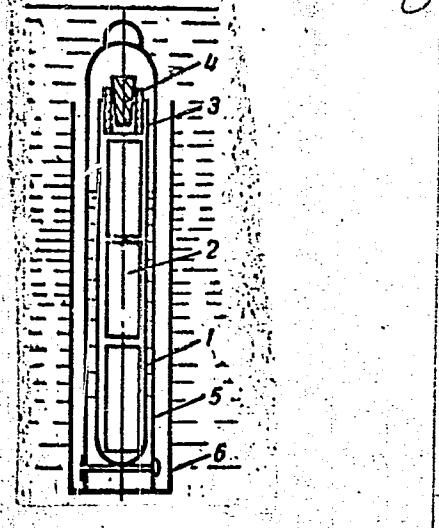
UDC: 621.039.584

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ACC NR: AP6006339

Fig. 1. 1 - ampule (first container);
2 - source; 3 - transition ring;
4 - stopper; 5 - cylindrical
chamber; 6 - secondary container.



mounted in the device. Orig. art. has: 1 figure.

SUB CODE: 18/ SUBM DATE: 04May64

Card 2/2 ULR

L 32808-66 EWT(m)

ACC NR: AP6011837

(A)

SOURCE CODE: UR/0240/65/000/011/0047/0054

40

B

AUTHOR: Bykhovskiy, A. V. (Doctor of medical sciences); Zarayev, O. M.ORG: Branch of Physicochemical Institute im. L. Ya. Karpov (Filial fiziko-khimi-
chiskogo instituta)TITLE: Observation of hot radioactive particles in the atmosphere in 1962-1964 19SOURCE: Gigiyena i sanitariya, no. 11, 1965, 47-54

TOPIC TAGS: radioactive aerosol, atmospheric radioactivity, radioactivity measurement, autoradiography, spectrometry

ABSTRACT: Systematic obseravtions of radioactive aerosols in the atmosphere over the continent were carried out. Filters, through which 150—200 thousand m³ of the air were drawn, were assayed by the autoradiographic method. Separate hot particles were isolated and subjected to γ -spectrometry. For converting the results of autoradiographic assay of filters into values expressing the activity of separate aerosol particles, a nomograph was drawn using a second autoradiograph. The data presented point to an abrupt fall in the concentration of hot aerosol particles in the atmosphere during the period from 1963 to 1964 when atmospheric nuclear testing was discontinued. Orig. art. has: 5 figures and 2 tables. [Based on authors' abstract.] [NT]

SUB CODE: 06, 18/ SUBM DATE: 13Aug64/ ORIG REF: 004

UDC: 614.73-07

BYKHOVSKIY, B.

LETAVER, A.; KHOTSYANOV, L.; ARKHIPOV, A.; SMELYANSKIY, Z.; KIMBAROVSKIY, Ya.;
PASTERNAK, A.; FOMGAUZ, M.; ARNOLDI, I.; BYKHOVSKIY, B.; GORKIN, Z.;
ZHISLIN, L.; ZAIDENBUR, I.; KOYRANSKIY, B.; MILLER, S.; NAVTROTSKIY, V.

Professor S.M.Aranovskii; obituary. Gig. i san. 21 no.10:62 o '56.

(ARANOVSKII, SOLOMON MOISEEVICH, 1885-1956)

(MLRA 9:11)

BYKHOVSKIY, B. B.

37510 Bykhovskiy, B. B. osnovnyye gigienicheskiye problemy magnitsevoj metallurgii.
V SB: XII vsesoyuz. S'yezd gigiyenistov, epidemiologov, mikrobiologov I infekcionistov.
T.I.M., 1949, S. 156-58

VERESHCHAGINA, V. I. Gruppa Kishechnoy palochki V sibirskom slivochnom
masle.----Gm. 37375

SO: Letopis' zhurnal'nykh Statey Vol. 37, 1949

BYKHOVSKIY, B.B., professor; RYKHTER, E.V., inzhener

Control of silicosis in coal mines of the Kizel' Basin. Bor'ba s
sil. 2:194-198 '55. (MLRA 9:5)

1. Molotovskiy meditsinskiy institut i Molotovskaya oblastnaya
sanitarno-epidemicheskaya stantsiya (for Rykhter)
(KIZEL' BASIN--DUST--PREVENTION)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307910007-4

BYKHOVSKIY, B. B., MISLAVSKAYA, M. M., TUTOLOMINA, V. G.

"Experience of silicosis prevention in the Kizelov coal basin."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307910007-4"

BYKHOVSKIY, B. E. PROF.

USSR/Physics - Cybernetics

Jul 52

"Cybernetics - An American Pseudoscience," Prof
B. E. Bykhovskiy

"Priroda" Vol 41, No 7, pp 125-127

Criticizes the cybernetics concept of the mind
as a giant computer and states that this re-
futes Pavlov's theories of the higher nervous
activity. Asserts that no mech model can be
identified with a biol process in general and
the higher nervous activity in particular.

229T111

ZAGULYAYEV, A.K.; PAVLOVSKIY, Ye.N., akademik, otv. red.[deceased];
BYKHOVSKIY, B.Ye., akademik, red.; GROMOV, I.M., red.;
MOCHADSKIY, A.S., red.; SKARLATO, O.A., red.; STRELKOV,
A.A., prof., red.; SHTAKEL'BERG, A.A., red.

[Moths and pyralids attacking grain and foodstuffs] Moli
i ognevki - vrediteli zerna i prodrovol'stvennykh zapasov.
Moskva, Nauka, 1965. 270 p. (MIRA 19:1)

BYKOVSKIY, D. YE.

1936. Nonogentlicheskie sozial'nye issledovaniya po roli chuv. tr. kirovskoy kompl. eksp. AM SSSR, t. 3, v. 1; 245-275.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307910007-4

BYKHOVSKIY, B. Ye.

"A New Type od Viviparous Multigenetic Trematoda," Dokl. AN SSSR, 58, No.9,
1947

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307910007-4"

BYKHOVSKIY, B. YE.

Bykhovskiy, B. Ye. "On monogenetic 'navaga' trematodes", Raboty Mor. biol. stantsii Karelo-Fin. gos. un-ta, Issue 11, 1947, (In column heading: 1948), p. 140-44.

SO: U-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No 21, 1949).

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307910007-4

BYKHOVSKIY, B. YE.

"Multigenetic suckers on some Iranian Fishes studied by Acad. Ye. N. Pavlovskiy"
Trudy Zool. In-ta. Vol VIII, No. 4, 1949, pp. 870-78.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307910007-4"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307910007-4

DUBININ, V. B.; BYKHOVSKIY, B. E. et al

Parazitologicheskii Sbornik (Digest of Works Relating to Parasitology), Vol. 8,
463 p., Moscow, Leningrad, 1951.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307910007-4"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307910007-4

BYKHOVSKIY, B. Ye.

"Tetraonchoides, a New Genus of Monogenetic Trematoda," Paraz., sbor., No.13,
1951

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307910007-4"

USHAKOV, P.V.; PAVLOVSKIY, Ye.N., akademik, redaktor; BYKHOVSKIY, B.Ye.,
redaktor; VINOGRADOV, B.S., redaktor; STRELKOV, A.A., redaktor;
SHTAKEL' BERG, A.A., redaktor

Polychaeta of the Far Eastern seas of the U.S.S.R. Opr.po faune
no.56:3-443 '55.
(MLRA 8:11)

1. Direktor Zoologicheskogo instituta Akademii nauk SSSR (for Pavlovskiy)

(Soviet Far East--Polychaeta)

BYKHOVSKIY, B.E., professor [reviewer]; BERTALANFFY, L. von [author].

~~Organicism - a reactionary and antiscientific trend in biology ("Problems of life" [in English]. L. von Bertalanffy. Reviewed by B.E.Bykovskii). Priroda 42 no.12:122-126 D '53.~~ (MLRA 6:11)
(Biology) (Bertalanffy, Ludwig von, 1901-)

BYKHOVSKIY, B.Ye.; POLYANSKIY, Yu.I.

Contributions to the study of marine monogenetic trematoda of the
Gyrodactylidae Cobb. family. Trudy Zool.inst. 13:91-126 '59.
(MLRA 7:5)

(Trematoda) (Parasites--Fishes)

BYKHOVSKIY, B.Ye.; NAGIBINA, L.F.

New representative of marine monogenetic trematodes from the
Pacific Ocean. Zool.zhur.33 no.1:30-38 Ja-F '54. (MLRA 7:2)

1. Zoologicheskiy institut Akademii nauk SSSR.
(Pacific Ocean--Trematoda) (Trematoda--Pacific Ocean)

BYKHOVSKIY, B.Ye.; DUBININA, M.N.

Materials on the systematics of digenetic trematodes of the family Acanthocolpidae Lihe, 1909. Zool. zhur. 33 no.4:788-793 Jl-Ag '54.
(MLRA 7:8)

1. Zoologicheskiy institut Akademii nauk SSSR.
(Trematoda)

ANDRIYASHEV, A.P.; PAVLOVSKIY, Ye.N., akademik, glavnnyy redaktor;
BYKHOVSKIY, B.Ye., redaktor; VINOGRADOV, B.S., redaktor; STEEL-
KOV, A.A., redaktor; SETAKEL'BERG, A.A., redaktor; SOSUNTSOVA, Ye.M.,
redaktor; SMIRNOVA, A.V., tekhnicheskiy redaktor.

Fishes of the northern seas of the U.S.S.R. Opredeliteli po faune
SSSR no.53:3-566 '54. (MLR 7:11)

1. Direktor Zoologicheskogo instituta Akademii nauk SSSR (for Pav-
lovskiy)
(Fishes)

TELENKA, N.A.; PAVLOVSKIY, Ye.N., akademik, glavnnyy redaktor; BYKHOVSKIY, B.Ye., redaktor; VINOGRADOV, B.S., redaktor; STRELKOV, A.A., re-
daktor; SHTAKEL'BERG, A.A., redaktor; BORKHSENIUS, N.S., redaktor;
KHYZHANOVSKIY, O.L., redaktor; SMIRNOVA, A.V., tekhnicheskiy redak-
tor.

Hymenoptera; family Braconidae, subfamily Microgasterinae, subfamily
Agathinae. Fauna SSSR 5 no.4:3-312 '55. (MIRA 8:5)

1. Direktor Zoologicheskogo Instituta Akademii nauk SSSR (for Pav-
lovskiy).
(Hymenoptera)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307910007-4

BYKHOVSKIY, B.Ye.; GUSEV, A.V.

Data on the study of monogenetic trematodes having primitive
hooks. Trudy Zool.inst. 21:110-118 '55. (MLRA 9:5)
(Trematoda)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307910007-4"

BYKHOVSKIY, B.Ye. (Leningrad)

"Reduction in the number of homologous organs as one of the
main paths of evolution in animals." V.A.Dogel'. Reviewed by
B.E.Bykhovskii. Zool.zhur. 34 no.3:686-691 My-Je '55.
(Dogel', V.A.) (Evolution) (MLRA 8:8)

KOROTKEVICH,V.S.; PAVLOVSKIY,Ye.N., akademik, redaktor; BYKHOVSKIY,B.Ye.,
redaktor; VINOGRADOV.B.S., redaktor; STRELKOV,A.A., redaktor; SHTANOV,
B.I., redaktor

Pelagic nemertinea of the Far Eastern seas of the U.S.S.R. Opr.po
faune no.58:3-131 '55.
(MLRA 8:11)

1. Direktor Zoologicheskogo instituta Akademii nauk SSSR (for Pav-
lovskiy)
(Soviet Far East--Nemertinea)

BYKHOVSKIY, B. Ye.

PAVLOSKIY, Ye.N., akademik, redaktor; BYKHOVSKIY, B.Ye., redaktor;
VINOGRADOV, B.S., redaktor; STHIL'KOV, A.A.; SHTAKEL'BERG, A.A.,
redaktor; BREGETOVA, N.G., redaktor; RADZIVILOVSKAYA, Z.A.,
redaktor; SMIRNOVA, A.V., tekhnicheskiy redaktor.

Mites of rodents in the U.S.S.R. Opr.po faune 59:3-458 '55.
(MIRA 9:1)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy)
(Mites) (Rodentia--Diseases and pests)

Name: BYKHOVSKIY, Boris Yevseyevich

Dissertation: Monogenetic Trematoda, their Systems and Phylogenesis

Degree: Doc Biol Sci

Affiliation: [not indicated]

Defense Date, Place: 13 Apr 55, Council of the Zoological Inst Acad
Sci USSR

Certification Date: 15 Sep 56

Source: BMVO 6/57

VYSOTSKAYA, S.O.; PAVLOVSKIY, Ye.N., akademik, redaktor; ~~BYKHOVSKIY,~~
~~B.Ye.~~, redaktor; VINOGRADOV, B.S., redaktor; ~~STRELKOV, A.A.~~, redak-
tor; ~~SHTADEL'BERG, A.A.~~, redaktor; DUBININ, V.B., redaktor;
ZENDEL', R.Ye., tekhnicheskij redaktor.

[Short guide to fleas having an epidemiological significance]
Kratkii opredelitel' blokh, imenushchikh epidemicheskoe znachenie.
Moskva, Izd-vo Akademii nauk SSSR, 1956. 99 p. (Opredeliteli po
faune SSSR, no.63)
(Fleas as carriers of disease) (MLRA 9:8)

BYKHOVSKIY, B.YE.

SERDYUKOVA, G.V.; PAVLOVSKIY, Ye.N., akademik, glavnnyy redaktor; BYKHOVSKIY, B.Ye., redaktor; VINOGRADOV, B.S., redaktor; STRELKOV, A.A., redaktor; SHTRADENBERG, A.A., redaktor.; BLAGOVESHCHENSKIY, D.I., redaktor izdaniya; KOZLOVA, G.I., redaktor izdatel'stva; KRUGLIKOV, N.A., tekhnicheskiy redaktor.

[Ixodid ticks of the U.S.S.R.] Iksodovye kleshchi fauny SSSR. Moskva, Izd-vo Akademii nauk SSSR. 1956. 121 p. (Opredeliteli po faune SSSR, no.64) (MIRA 10:3)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(Ticks)

BYKHOVSKIY, R. V.

BREGETOVA, N.G.; PAVLOVSKIY, Ye.N., akademik, redaktor; BYKHOVSKIY, R.V.,
redaktor; VINOGRADOV, B.S., redaktor; STRELKOV, A.A., redaktor;
SHTAMEL'BERG, A.A., redaktor; MONCHADSKIY, A.S., redaktor;
ZEMDEL', M.Ye., tekhnicheskiy redaktor.

[Gamasid mites (Gamasoidea); short guide] Gamazovye kleschchi
(Gamasoidea); kratkii opredelitel'. Moskva, Izd-vo Akademii nauk
SSSR, 1956. 246 p. (Opredeliteli po faune SSSR, no.61) (MLRA 9:8)

1. Direktor zoologicheskogo instituta AN SSSR (for Pavlovskiy)
(Mites)

NOVIKOV, G.A.; PAVLOVSKIY, Ye.N., akademik, redaktor; BYKHOVSKIY, B.Ye.,
redaktor; VINOGRADOV, B.S., redaktor; STRELKOV, A.A., redaktor;
SHTAKEL'BERG, A.A., redaktor; KOZLOVA, G.I., redaktor; SMIRNOVA,
A.V., tekhnicheskij redaktor.

[Carnivorous mammals of the U.S.S.R.] Khishchnye mlekopitaiushchie
fauny SSSR. Moskva, Izd-vo Akademii nauk SSSR, 1956. 293 p.
(Opredeliteli po faune SSSR. no. 62) (MLRA 9:8)

1. Direktor zoologicheskogo instituta AN SSSR (for Pavlovskiy)
(Carnivora)

DUBININ, V.B.; PAVLOVSKIY, Ye.N., akademik, glavnnyy redaktor; BYKHOVSKIY,
B.Ye., redaktor; VINOGRADOV, B.S., redaktor; SHTAKELBERG, A.A.,
redaktor; STRELKOV, A.A., redaktor; ZENDEL', R.Ye., tekhnicheskiy
redaktor.

[Feather mites (Analgesoidea)]. Per'evye kleshchi (Analgesoidea).
Pt.3: [Family Pterolichidae]. Semeistvo Pterolichidae. Moskva,
Izd-vo Akademii nauk SSSR, 1956. 813 p. (Fauna SSSR vol.6, no.7).
(MLRA 10:6)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(Mites) (Parasites--Birds)

PYKHOVSKIY, B. Ye.

KOZLOVA, Ye.V.; PAVLOVSKIY, Ye.N., akademik, glavnyy redaktor; PYKHOVSKIY, B.Ye., redaktor; VINOGRADOV, B.S., redaktor; STRELKOV, A.A., redaktor; SHTAKEL'BERG, A.A., redaktor; IVANOV, A.I., redaktor; KOZLOVA, G.I., redaktor izdatel'stva; SMIRNOVA, A.V., tekhnicheskii redaktor.

[Charadriiformes. Suborder Alcae. 143.p.] Rzhankobrasnye. Podotriad chistikovye. Moskva, Izd-vo Akademii nauk SSSR, 1957. 143 p. (Fauna SSSR, vol.2, no.3) (MLRA 10:3)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy)
(Auks)

BYKHOVSKIY, B. Ye.

BULYCHEVA, A.I.; PAVLOVSKIY, Ye.N., akademik, glavnnyy redaktor; BYKHOVSKIY,
B.Ye., redaktor; VINGRADOV, B.S., redaktor; STRELKOV, A.A., redaktor;
SHTAHEL'BERG, A.A., redaktor izdaniya; KRUGLIKOV, N.A., tekhnicheskiy
redaktor

[Talitroidea in the seas of the U.S.S.R. and adjacent waters
(Amphipoda Talitroidea)] Morskie blokhi morei SSSR i sopredel'nykh
vod (Amphipoda Talitroidea) Moskva, Izd-vo Akademii nauk SSSR,
1957. 185 p. (Opredeliteli po faune SSSR no.65). (MLRA 10:4)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy)
(Amphipoda)

БУХНОВСКИЙ Б. Я.

ЛУК'ЯНОВИЧ, Ф.К.; ТЕР-МИНАСЯН, М.Ye.; ПАВЛОВСКИЙ, Ye.N., akademik,
glavnnyy redaktor; БУХНОВСКИЙ, B.Ye., redaktor; ВИНОГРАДОВ, B.S.,
redaktor; СТРЕЛКОВ, A.A., redaktor; СТАКАЛЬБЕРГ, A.A., redaktor;
ТВЕРИТИНОВА, K.S., tekhnicheskij redaktor.

[Grain beetles (Bruchidae).] Zhuki-zernovki (Bruchidae). Moskva,
Izd-vo Akad. nauk SSSR, 1957. 208 p. (Fauna SSSR, no.67, Zhestko-
krylye, vol. 24, no.1). (MLRA 10:?)

(Beetles)

BYKHOVSKIY, B.Ye.

TARASOV, N.I.; ZEVINA, G.B.; PAVLOVSKIY, Ye.N., akademik, glavnnyy red.;
BYKHOVSKIY, B.Ye., red.; VINOGRADOV, B.S., red.; SHTAKEL'BERG, A.A.,
red.; STRELKOV, A.A., red.; SERGEYEVA, G.I., red. izd-va; SMIRNOVA,
A.V., tekhn. red.

[Barnacles (*Cirripedia thoracica*) in the seas of the U.S.S.R.] Uso-
nogie raki (*Cirripedia thoracica*) morei SSSR. Moskva, Izd-vo akad.
nauk SSSR, 1957. 263 p. (Fauna SSSR, no.69). (MIRA 11:3)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(Cirripedia)

BYIKHOVSKIY, B. YE.

BORKHSENIUS, N.S.; PAVLOVSKIY, Ye.N., akademik, redaktor; ~~BYIKHOVSKIY, B.Ye.~~,
redaktor; VINOGRADOV, B.S., redaktor; STREKLOV, A.A., redaktor;
SHTAKEL'BERG, A.A., redaktor izdaniya; KRUGLIKOV, N.A., tekhnicheskij
redaktor.

[Suborder Coccoidea. Family Coccidae] Podotr. chervetay i shchitovki
(Coccoidea). Semeistvo podushechnitsy i lozhnoshchitovki (Coccidae).
Moskva, Izd-vo Akademii nauk SSSR. 1957. 493 p. (Fauna SSSR, no.66.
Nasekomye khobotnye, vol.9) (MLRA 10:5)
(Scale insects)

BYKHOVSKIY, B.Ye.; PAVLOVSKIY, Ye.N., akademik, glavnnyy redaktor; STRELKOV, A.A., professor, redaktor izdaniya; ARONS, R.A., tekhnicheskiy redaktor.

[Monogenetic trematodes; their classification and phylogeny] Monogeneticheskie sosal'shchiki ikh sistema i filogeniya. Moskva, Izd-vo Akad. nauk SSSR. 1957. 509 p. (MLRA 10:5)

1. Direktor Zoologicheskogo instituta Akademii nauk SSSR (for Pavlovskiy) (Trematoda)

BYKHOVSKIY, B.Z.; NAGIBINA, L.F.

Monogenetic trematodes of the sheatfish *Silurus glanis*. Paraz. sbor.
17:237-250 '57. (MIRA 11:3)

1. Zoologicheskiy institut AN SSSR.
(Trematoda) (Parasites--Catfishes)

BYKHOVSKIY, B. V.

Key problems in modern parasitology. (Conference in the Institute
of Zoology). Vest. AN SSSR 27 no.6:114-116 Je '57. (MIRA 10;7)
(Moscow--Parasitology)

USSR/Zooparasitology - Helminths.

G.

Abs Jour : Ref Zhur - Biol., No 15, 1958, 67486

Author : Bykhoyskiy, B.Ye., Nagibina, L.F.
Inst : -

Title : The Monogenetic Trematoda of the Sheatfish *Silurus glanis*.

Orig Pub : Parazitol. sb., 1957, 17, 237-250.

Abstract : On the basis of an investigation of collected material and live specimens (1953-1954 in the Volga Delta) it has been determined that under the title *Ancyrocephalus siluri* (Landt, 1924), Yamaguti, 1937, three species are actually to be found: *A. siluti*, *A. vistulensis* (Siwak, 1932), Yamaguti, 1937, and *A. magnus* sp. n. (descriptions are given of the three species).

Card 1/1

- 5 -

USSR / Zooparasitology. Parasitic Worms.

G-3

Abs Jour: Ref Zhur-Biol., No 20, 1958, 91051

Author: Bykhovskiy, B. Ye.

Inst : The All-Union Scientific Research Institute
for Lake and River Fisheries

Title : Information on Monogenetic River Fisheries
Trematodes in the Fishes in Tadzhikistan.

Orig Pub: Izv. Vses. n.-i. in-ta oz. i rechn. rybn. kh-va,
1957, 42, 109-123 (res. Eng.)

Abstract: In 1944/45 9 species of monogenetic trematodes
were discovered in fish of the Stalinabad
region: Dogielius planus sp. n., Dactylog-
yrus modestus sp. n., Gyrodactylus montatus
sp. n., Gyrodactylus vicinus sp. n. and Dactylo-
gyrus longicopula in Schizothorax; Dact.
varicorhini sp. n., Dact. pulcher sp. n.,

Card 1/2

PAVIL'SHCHIKOV, Nikolay Nikolayevich; PAVLOVSKIY, Ye.N., akademik,
glavnnyy red.; BYKHOVSKIY, B.Ye., red.; VINOGRADOV, B.S., red.;
STRELKOV, A.A., red.; SHTAKEL'BERG, A.A., red.serii; KRYZHANOV-
SKIY, O.L., red.toma; KRUGLIKOV, N.A., tekhn.red.

Coleoptera. Vol.23 no.1: [Longicorn beetles] Zhuki-drovoski.
Pt.3: [Subfamily Lamiinae. Pt.1.] Podsemeistvo Lamiinae. 1958.
591p. Moskva, Izd-vo Akad. nauk SSSR. (Fauna SSSR, no.70).
(MIRA 13:4)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(Longicorn beetles)

CHINA / Zooparasitology. Parasitic Worms. Helminths in Animals. G

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19680

Author : Bykhovskiy, B. Ye.; Nagibina, L. F.

Inst : Not given

Title : Anchrophorus sinensis Bychowsky et Nagibina gen. n., sp. nov. - A Representative of a New Family of Monogenetic Trematodes

Orig Pub : Tung-yu hsueh-pao, Acta zool. sinica, 1958, 10, No 1, 1-7 (Chinese), 8-18 (Russian)

Abstract : A description and illustrations of A. sinensis from the gills of the Black Sea fish Cynoglossus semilaevis. A new family, Anchrophoridae fam. n., is based upon this new species and genus, which is armed with a

Card 1/2

BYKHOVSKIY B. E. and NAGIBINA, L. F.

"New Material on the Taxonomy of Polygenetic Trematodes."

Tenth Conference on Parasitological Problems and Diseases with Natural
Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of
Sciences, USSR, Moscow-Leningrad, 1959.

USSR Academy of Sciences Zoology Institute (Leningrad)

LINDBERG, G.U.; LEGEZA, M.I.; PAVLOVSKIY, Ye.N., akad., glavnnyy red.;
BYKHOVSKIY, B.Ye., red.; VINOGRADOV, B.S. [deceased], red.;
STRELKOV, A.A., red.; SHTAKEL'BERG, A.A., red.; ANDRIYASHEV,
A.P., red.; SMIRNOVA, A.V., tekhn.red.

[Fishes of the Sea of Japan and contiguous areas of the
Sea of Okhotsk and the Yellow Sea. Pt. 1: Amphioxo, Petromyzones,
Myxini, Elasmobranchii, Holocephali] Ryby I Apontskogo
moria i sopredel'nykh chastei Okhotskogo i Zhełtogo morei.
Moskva, Izd-vo Akad.nauk SSSR. Part 1. Amphioxo, Petromyzones,
Myxini, Elasmobranchii, Holocephali. 1959. 207 p. (Opredeliteli
po faune SSSR, no. 68).
(MIRA 12:12)

1. Direktor Zoologicheskogo Instituta AN SSSR (for Pavlovskiy)
(Japan, Sea of--Fishes)

BYKHOVSKIY, B.Ye.; PETRUSHEVSKIY, G.K. [deceased]; POLYANSKIY, Yu.I.

V.A.Dogel' and his role in studying parasites and diseases of
fishes in the U.S.S.R. Trudy sov.Ikht.kom. no.9:7-12
'59. (MIRA 13:5)

1. Zoologicheskiy institut Akademii nauk SSSR, Vsesoyuznyy
nauchno-issledovatel'skiy institut ozernogo i rechnogo
rybnogo khozyaystva i Leningradskiy gosudarstvennyy universitet.
(Dogel', Valentin Aleksandrovich, 1882-1955)
(Parasites--Fishes)

LINDBERG, G.U.; SHCHEDRINA, Z.G.; DOGEL', V.A.; RESHETNYAK, V.V.; STRELKOV, A.A.; KOLTUN, V.M.; NAUMOV, D.V.; IVAHOV, A.V.; BYKHOVSKIY, B.Ye., ZHUKOV, Ye.V.; PERNAMENT, T.S.; KOROTKEVICH, V.S.; USHAKOV, P.V.; KLTUGE, G.A.; ANDROSOVA, Ye.I.; GOSTILOVSKAYA, M.G.; BRODSKIY, K.A.; GUSEV, A.V.; TARASOV, N.I.; GUR'YANOVA, Ye.F.; VAGIN, V.L.; LOMAKINA, N.B.; BULYCHEVA, A.I.; KOBYAKOVA, Z.I.; LOZINO-LOZINSKIY, L.K.; YAKOVLEVA, A.M.; GALKIN, Yu.I.; ŠKARIATO, O.A.; AKIMUSHKIN, I.I.; D'YAKONOV, A.M.; BARANOVA, Z.I.; SAVEL'YEVA, T.S.; SKALIKIN, V.A.

List of the fauna of marine waters of southern Sakhalin and southern Kuriles. Issl.dal'nevost.mor.SSSR no.6:173-256 '59.
(MIRA 13:3)

1. Zoologicheskiy institut AN SSSR.
(Sakhalin--Marine fauna)
(Kurile Islands--Marine fauna)

POLYANSKIY, Yu.I.; BYKHOVSKIY, B.Ye.

Results and outlook for the work of Soviet parasitologists in
studying the parasites of fishes in seas of the U.S.S.R. Trudy
sov.Ikht.kom. no.9:177-183 '59. (MIRA 13:5)

1. Zoologicheskiy institut AN SSSR i Leningradskiy gosudarstvennyy
universitet imeni A.A.Zhdanova.
(Parasites--Fishes)

BYKHOVSKIY, B.Ye.; POPOV, V.V.

Academician Evgenii Nikanorovich Pavlovskii; on the 50th
anniversary of his scientific and civic activities. Zool.
zhur. 38 no.3:313-319 Mr '59. (MIRA 12:4)
(Pavlovskii, Evgenii Nikanorovich, 1884-)

BYKHOVSKIY, B.Ye.; MAGIBINA, L.P.

Systematics of the genus Diplozoon Nordmann (Monogenoidea).
Zool. zhur. 38 no.3:362-377 Mr '59.
(NIRA 12:4)

1. Zoological Institute of the Academy of Sciences of the
U.S.S.R. Leningrad.
(Thematoda) (Parasites--Carp)

BLAGOVESHCHENSKIY, Dmitriy Ivanovich; PAVLOVSKIY, Ye.N., akademik, glavnyy
red.; PUKHOVSKIY, B.Ye., red.; STRELKOV, A.A., red.; SHTAKEL'BERG,
A.A., red.; PUKHAL'SKAYA, L.F., red.; ZENDEL', M.Ye., tekhn.,
red.

[Lice (Siphunculata) parasitic on domestic animals] Vshi (Siphunculata)
domashnikh mlekopitaiushchikh. Moskva, Izd-vo Akad.nauk SSSR, 1960.
86 p. (Opredeliteli po faune SSSR, no.73). (MIRA 19:12)
(Anoplura). (Parasites—Domestic animals)

GUTSEVICH, Aleksandr Vasil'yevich; PAVLOVSKIY, Ye.N., akademik, glavnyy
red.; BYKHOVSKIY, B.Ye., red.; SREMKOV, A.A., red.;
SHTAKEL'BERG, A.A., red.vypuska; KRUGLIKOV, N.A., tekhn.red.
[Bloodsucking midges (Diptera, Heleidae) in the fauna of the
U.S.S.R.] Krovososushchie mokretsy (Diptera, Heleidae) fauny
SSSR. Moskva, Izd-vo Akad.nauk.SSSR, 1960. 130 p. (Opredeliteli
po faune SSSR no.72).
(Diptera) (MIRA 13:8)

SKARIATO, Orest Aleksandrovich; PAVLOVSKIY, Ye.N., akademik, glavnyy
red.; BYKHOVSKIY, B.Ye., red.; VINOGRADOV, B.S. [deceased], red.;
STRELKOV, A.A., red.izdaniya; SHTAKEL'BERG, A.A., red.; VML'YATAGO,
N.A., red.izd-va; ARONS, R.A., tekhn.red.

[Bivalvular mollusks in Far Eastern seas of the U.S.S.R. (order
Dysodonta)] Dvustvorchatye molliuski dal'nevostochnykh morei
SSSR (Otriad Dysodonta). Moskva, Izd-vo Akad.nauk SSSR, 1960.
151 p. (Opredeliteli po faune SSSR, no.71).

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(Soviet Far East--Lamellibranchiata)

PAVLOVSKIY, Ye.N., akademik, glavnnyy red.; BYKHOVSKIY, B.Ye., red.;
STRELKOV, A.A., red.toma; SHTAKEL'BERG, A.A., red.; KRUGLIKOV,
N.A., tekhn.red.

[Pogonophora] Pogonofory. Moskva, Izd-vo Akad.nauk SSSR, 1960.
271 p. (Fauna SSSR, no.75) (MIRA 13:4)
(Pogonophora)

BORKHSENTIUS, Nikolay Sergeyevich; PAVLOVSKIY, Ye.N., akademik, glavnnyy red.;
~~BYKHOVSKIY, B.Ye.~~, red.; STRELKOV, A.A., Red.; SHTAKEL'BERG,
A.S., Red.; KRUGLIKOV, N.A., tekhn.red

[Homopterans and homopterans] Nasekomye khobotnye. Moskva, Izd-vo Akad.
nauk SSSR, no.77. Vol.8 [Suborder of scale insects (Coccoidea); families
Kermococcidae, Asterolecaniidae, Lecaniodiaspididae, Aclerdidae] Podo-
triad chervetey i shchitovki (Coccoidea); semialutva Kermococcidae,
Asterolecaniidae, Lecaniodiaspididae, Aclerdidae. 1960.283 p.

(Scale insects)

(MIRA 14:2)

MEDVEDEV, Sergey Ivanovich; PAVLOVSKIY, Ye.N., akademik, glavnnyy red.;
BYKHOVSKIY, B.Ye., red.; STRELKOV, A.A., red.; SHTAKEL'BERG,
A.A., red.; KRYZHANOVSKIY, O.L., red.vypuska; KRUGLIKOV, N.A.,
tekhn.red.

[Coleoptera. Vol.10, no.4: Lamellicorns (Scarabaeidae); sub-
families Euchirinae, Dynastinae, Glaphyrinae, Trichiinae]
Plastinchatousye (Scarabaeidae). Podsem. Euchirinae, Dynastinae,
Glaphyrinae, Trichiinae. Moskova, Izd-vo Akad. nauk SSSR, 1960.
397 p. (Fauna SSSR, no.74) (MIRA 13:4)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(Scarabaeidae)

PORTEMKO, Leonid Aleksandrovich; PAVLOVSKIY, Ye.N., akademik, glavnnyy
red.; BYKHOVSKIY, B.Ye., red.; STRELKOV, A.A., red.; STRELKOV,
A.A., red.; SHTRAKEL'BERG, A.A., red.; IVANOV, A.I., red.izdaniya;
GOLOVNIN, M.I., red.izd-va; ARONS, R.A., tekhn.red.

[Birds of the U.S.S.R. Pt.4.] Ptitsy SSSR. Pt.4. Moskva, Izd-vo
Akad.nauk SSSR, 1960. 414 p. (Opredeliteli po faune SSSR, no.69.)
(MIRA 13:3)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(Passeriformes)

HAUMOV, Donat Vladimirovich; PAVLOVSKIY, Ye.N., akademik, glavnnyy red.;
BYKHOVSKIY, B.Ye., red.; VINOGRADOV, B.S., red. [deceased];
STRELKOV, A.A., prof., red.; SHTAKEL'BERG, A.A., red.;
SMIRNOVA, A.V., tekhn.red.

[Hydroids and hydromedusae in marine, brackish, and fresh-water
basins of the U.S.S.R.] Gidroidy i hidromeduzы morskikh,
solonovatovodnykh i presnovodnykh basseinov SSSR. Moskva, Izd-vo
Akad. nauk SSSR, 1960. 585 p. (Opredeliteli po faune SSSR,
no.70)

(MIRA 13:7)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(Hydrozoa)

GUR'YANOVA, Yevpraksiya Fedorovna; PAVLOVSKIY, Ye.N., akademik, glav. red.
STRELKOV, A.A., prof., red. izdaniya; BYKHOVSKIY, B.Ye., red.;
GROMOV, I.M., red., red.; MONCHADSKIY, A.S., red.; SKARLATO, O.A.,
red.; SHTAKEL'BERG, A.A.; VEL'YATAGO, N.A., red. izd-va;
KONDRAT'YEVA, M.N., tekhn. red.

[Amphipods of the northern part of the Pacific Ocean (Amphipoda-Gammaridea). Part 1] Bokoplavy severnoi chasti Tikhogo okeana (Amphipoda-Gammaridea); chast' 1. Moskva, Izd-vo Akad.nauk SSSR, 1962. 440 p. (Operadeliteli po faune SSSR, no.74.) (MIRA 15:6)

1. Direktor Zoologicheskogo instituta Akademii nauk SSSR
(for Pavlovskiy).

(Pacific Ocean—Gammaridae)

KLYUGE, German Avgustovich [deceased]; PAVLOVSKIY, Ye.N., akademik, glav. red.;
STRELKOV, A.A., prof., red. toma; BYKHOVSKIY, B.Ya., rad.;
GROMOV, I.M., red.; MONCHADSKIY, A.S., red.; SKARLATO, O.A., red.;
SHTAKEL'BERG, A.A., red.; VEL'YATAGO, N.A., red.izd-va;
VINOGRADOVA, N.V., tekhn. red.

[Bryozoa of the northern seas of the U. S. S. R.] Mshanki
severnykh morei SSSR] Moskva, Izd-vo Akad.nauk SSSR, 1962.
584 p. (Opredeliteli po faune SSSR, no.76.) (MIRA 15:6)

1. Direktor Zoologicheskogo instituta Akademii nauk SSSR (for
Pavlovskiy).

(Arctic regions—Polyzoa)

RUBTSOV, Ivan Antonovich; PAVLOVSKIY, Ye.N., akademik, glavnnyy red.;
STRELKOV, A.A., red.toma; BYKHOVSKIY, B.Ye., red.; GROMOV, I.M.,
red.; MONCHADSKIY, A.S., red.; SKARLATO, O.A., red.; SHTAKEL'BERG,
A.A., red.; BORISOV, K.A., red.izd.; SMIRNOVA, A.V., tekhn.red.

[Concise classification key of the bloodsucking black flies of the
U.S.S.R.] Kratkii opredelitel' krovososushchikh moshek fauny SSSR.
Moskva, Izd-vo Akad.nauk SSSR, 1962. 227 p. (Opredeliteli po
faune SSSR, no.77). (MIRA 15:8)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(Black flies)

CHEKANOVSKAYA, Ol'ga Vitol'dovna; PAVLOVSKIY, Ye.N., akademik, glavnyy red.;
STRELKOV, A.A., red.toma; BYKHOVSKIY, B.Ye., red.;
GROMOV, I.M., red.; MONCHADSKITY, A.S., red.; SKARLATO, O.A., red;
SHTAKEL'BERG, A.A., red.; VEL'YATAGO, N.A., red.izd-va;
SMIRNOVA, A.V., techn.red.

[Aquatic oligochaeta worms of the fauna of the U.S.S.R.]
Vodnye maloshchetinkovye chervi fauny SSSR. Moskva, Izd-vo
Akad. nauk SSSR, 1962. 411 p. (Opredeliteli po faune
SSSR, no.78). (MIRA 15:11)

1. Direktor Zoologicheskogo instituta AN SSSR (for
Pavlovskiy).

(Oligochaeta)

NAUMOV, Donat Vladimirovich; PAVLOVSKIY, Ye.N., akademik, glavnnyy red.;
STRELKOV, A.A., red.; BYKHOVSKIY, B.Ye., red.; GROMOV, I.N., red.;
MONCHADSKIY, A.S., red.; SKARLATO, O.A., red.; SHTAKEL'BERG, A.A.;
ZAMARAYEVA, R.A., tekhn.red.

[Scyphomedusae in the seas of the U.S.S.R.] Stsifoidnye meduzy
morei SSSR. Moskva, Izd-vo Akad.nauk SSSR. 1961. 97 p.
(Opredeliteli po faune SSSR, no.75). (MIRA 15:2)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(Scyphomedusae)

TOMILIN, Avenir Grigor'yevich, prof.; PAVLOVSKIY, Ye.N., akademik, glavnnyy
red.; CHAPSKIY, K.K., red.; BYKHOVSKIY, B.Ye., red.; GROMOV, I.M.,
red.; MONCHADSKIY, A.S., red.; SKARLATO, O.A., red.; STRELKOV, A.A.,
red.; SHTAKEL'BERG, A.A., red.; MAKAROV, B.M., red.izd-va;
ROMANOV, G.M., tekhn.red.; NOVICHKOVA, N.D., tekhn.red.

[Cetaceans of the seas of the U.S.S.R.] Kitoobraznye fauny
morei SSSR. Moskva, Izd-vo Akad.nauk SSSR, 1962. 211 p.
(Opredeliteli po faune SSSR, no.79). (MIRA 15:8)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(Cetacea)

KOZLOVA, Yelizaveta Vladimirovna; PAVLOVSKIY, Ye.N., akademik, glavnnyy red.;
GRANOV, A.I., red.toma; BYKHOVSKIY, B.Ye., red.; GROMOV, I.M., red.;
MONCHADSKIY, A.S., red.; SKARLATO, O.A., red.; STRELKOV, A.A., red.;
SETAKEL'BERG, A.A., red.; KOZLOVA, G.I., red.izd-va;
BOCHEVER, V.T., tekhn.red.

[Charadriiformes; the suborder of shore birds] Rzhankooobraznye;
Podotriad kuliki. Moskva, Izd-vo Akad.nauk SSSR. Vol.2, no.1.
[Birds] Ptitsy. 1962. 432 p. (Fauna SSSR, no.81) (MIRA 15:6)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(More birds)

GRUNIN, Konstantin Yakovlevich; PAVLOVSKIY, Ye.N., akademik, glavnyy red.;
SHTAKEL'BERG, A.A., prof., red.; BYKHOVSKIY, B.Ye., red; GROMOV,
I.M., red.; MONCHADSKIY, A.S., red.; SKARLATO, O.A., red.;
STRELKOV, A.A., red.; MAKOVSKAYA, L.M., red.izd-va; BOCHEVER,
V.T., tekhn.red.

[Warble flies (Hypodermatidae)] Podkazhnye ovoda (Hypodermatidae).
Moskva, Izd-vo Akad.nauk SSSR, 1962. 237 p. (Fauna SSSR, Ser. 82
no. Nasekomye dvukrylye, vol.19, no.4). (MIRA 16:4)
(Warble flies)

LIKHAREV, Il'ya Mikhaylovich; PAVLOVSKIY, Ye.N., akademik, glavnnyy red.;
STRELKOV, A.A., red.toma; BYKHOVSKIY, B.Ye., red.; GROMOV, I.M.;
red.; MONCHADSKIY, A.S., red.; SKARLATO, O.A., red.; SHTAKEL'BERG,
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Monogenous trematodes of the fam. Tetraonchoididae Bychowsky,
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L 23332-65
ACCESSION NR: AP5001193

constructed with the help of an oscillograph. The latter provided the record not only of the average values, but also of the momentary values of the potential, as they are affected by the high-frequency component originating in the anodic part of the arc. Orig. art. has: 4 figures and 1 table

ASSOCIATION: VNIIESO

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ENCL: 00

SUB CODE: MM, EE

OTHER: 002

Card 2/2

L 9830-66
ACC NH: AF5028288

SOURCE CODE: UR/0020/65/165/002/0451/0453

AUTHOR: Polunina, O. A.; Ezhkovskiy, B. Ya. (Academician)

ORG: MBIKFANS, LGU

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B

ORG: Murmansk Marine Biological Institute AN SSSR; Leningrad State University im. A. A. Zhdanov (Murmanskij morskoy biologicheskiy institut AN SSSR; Leningradskij gosudarstvennyj universitet im. A. A. Zhdanova)

TITLE: Ability of the starfish asterias rubens (L.) to differentiate the saltiness of sea water

SOURCE: AN SSSR. Doklady, v. 165, no. 2, 1965, 451-453

TOFIC TAGS: experiment animal, sea water, environment test, nervous system

ABSTRACT: Barentsov sea starfish with normal and damaged nervous systems were observed reacting to chemical changes of the environment. Adult starfish were selected for the experiments with the length of the arms 7-8 cm. An apparatus consisting of a 50-cm-diameter crystallizing basin, divided by partitions into

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UDC: 563.93

L 9830-66

ACC NR: AP5028288

four unconnected sections and having a small pedestal in the center, was used so that the body of the starfish could rest on the pedestal and the arms laid in the sections. Sea water concentrations of 34, 28, 24, 22, 17, and 8% were used as well as fresh water and solutions of normal sea water (34%) with $MgCl_2$, $CaCl_2$, KCl , and $NaCl$ from 5 to 0.5 g/l. The starfish always moved in the direction closest to the concentration of normal sea water, as shown in Table 1.

Таблица 1

- 1) quantity g/l;
 2) normal sea
 water; 3) sea
 water with ad-
 dition of.

Конц. г/л соли	2 Норм. морск. вода	3 Морская вода с добавлением солей				Конц. г/л соли	Норм. морск. вода	3 Морская вода с добавлением солей			
		NaCl	KCl	CaCl ₂	MgCl ₂			NaCl	KCl	CaCl ₂	MgCl ₂
0.5	+	+	+	+	+	+	4,5	+	+	-	-
1	+	+	+	+	-	-	5	+	-	-	-
2	+	+	-	-	-	-					

Table 1. (- positive moving reaction; - negative moving reaction.)

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The nervous system of starfish consists of five radial ectoneural cords running along ambulacral grooves and interconnected by means of a peristomastic ring. Above the ectoneural cords, but isolated from them, are the hyponeural cords (Lang's nerves). When the neural cords were severed from the peristomastic ring, the starfish lost their protective reaction, and their ability to select a suitable environment was impaired. After 18-20 days, the nervous system was regenerated and its functions restored. Orig. art. has: 1 figure and 1 table.

SUB CODE: 06/ SUBM DATE: 31Dec64/

NR REF Sov: 006/ OTHER: 003

HW

3/3

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ABSTRACT: Bibliographic entry

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(Electric reactors)
(Electric transformers)
(Electric current rectifiers)